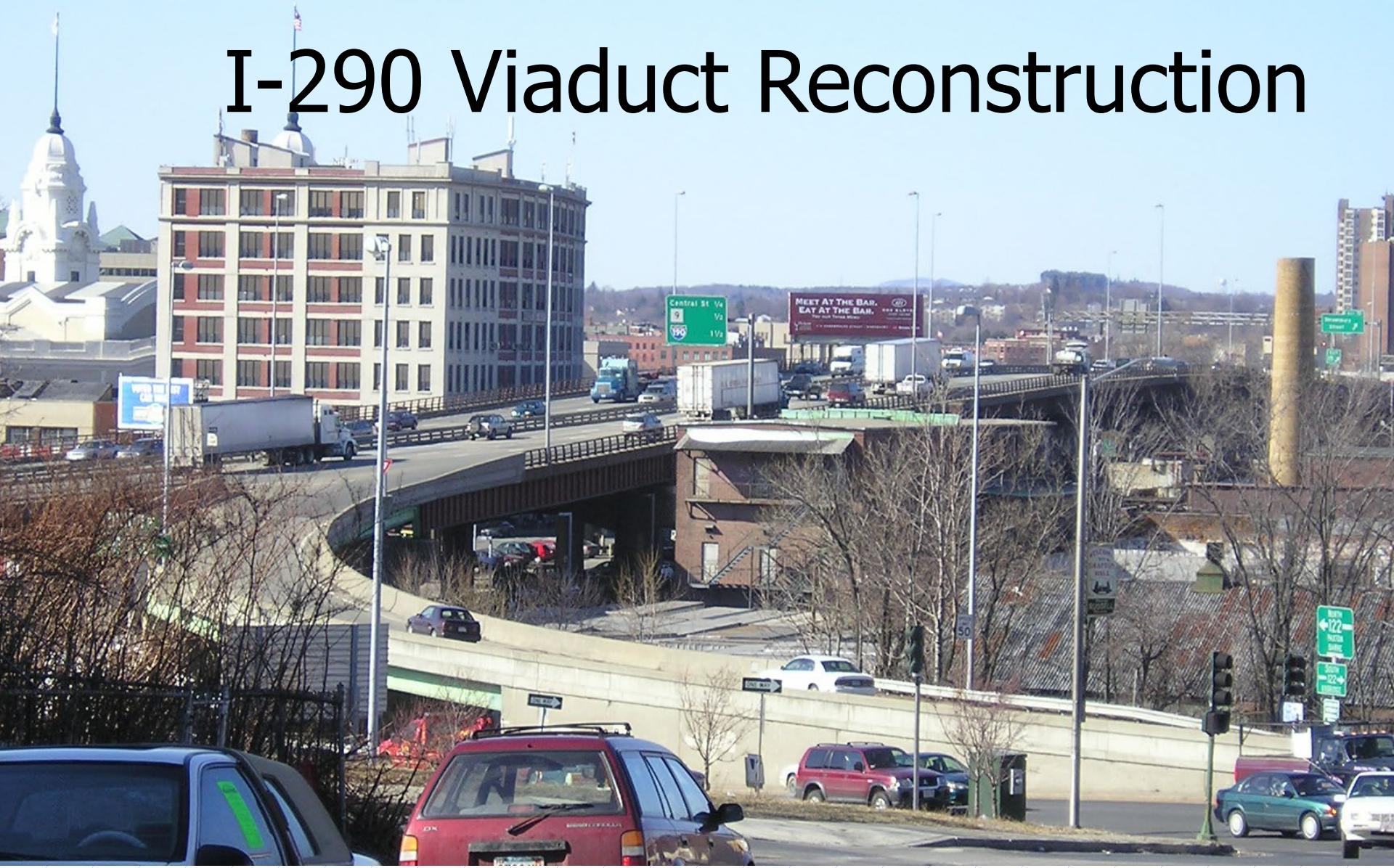


Bridge Rehabilitation W-14-082 Interstate 290 over CSX Railroad and 4 City Streets

I-290 Viaduct Reconstruction



What does the project consists of?

\$16.5 Million project to rehabilitate the bridge structure carrying I-290 over:

CSX Railroad

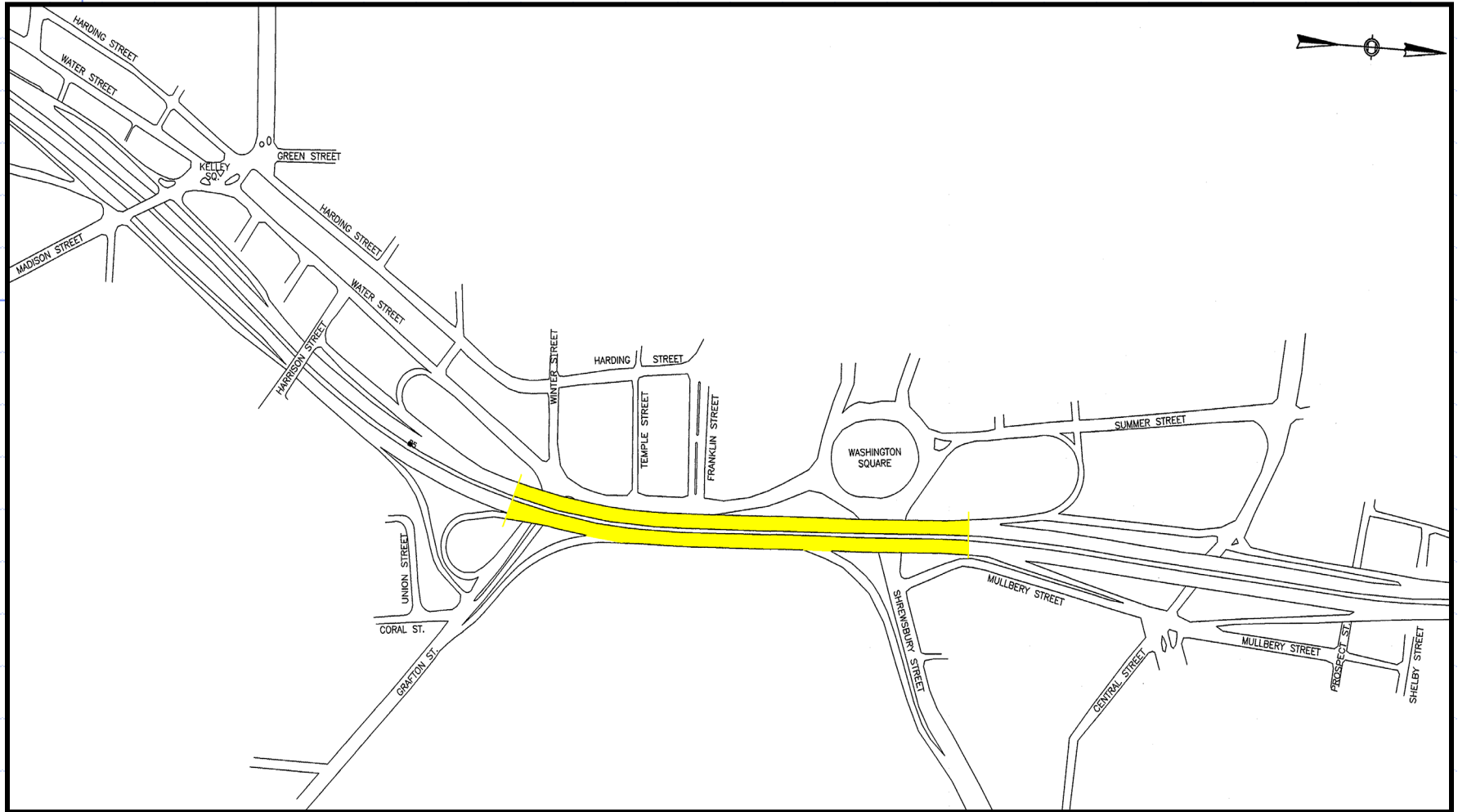
Grafton Street

Franklin Street

Shrewsbury Street

Access road to commuter parking lots

Overview of Affected Area



Bridge Attributes

- Consists of 11 spans
- 1550 feet in length
- Four lanes in each direction (3 travel lanes)
- Carries 120,000 vehicles on an average day
- Major regional roadway
- Used heavily for intra-city trips
- Built in 1958 (therefore it is 46 years old)
- It has reached the end of its useful life

What is wrong with the bridge?

- Bridge deck is severely deteriorated and saturated with salt.
 - Steel I-Beams are undersized for today's heavy trucks.
 - Damaged expansion joints have led to deterioration of concrete in the substructure.
 - Bridge railing does not meet current standards.
 - Cost to repair and maintain the bridge is becoming uneconomical.
-

Ramifications If Project Is Not Done

- Could potentially reduce travel lanes to reduce loading.
- Increase the posting and restrict truck traffic from I-290.
- Could lose a section of the bridge.
- Could lead to more extensive/expensive substructure repairs.

In other words –

This issue has to be addressed!

How are we going to fix the bridge?

- Completely demolish the existing deck and railings.
- Clean and paint structural steel at critical areas to protect against future corrosion.
- Reinforce the steel I-beams with steel plates and other structural retrofits.
- Repair concrete substructure.
- Provide new deck.
- Provide new railing.
- Provide new expansion joints.

The Big Question

How are we going to keep
traffic moving while we
rebuild the bridge?

Construction Staging Plan

- 2 stages of construction
- Construct the bridge in halves
- Bridge consists of 2 separate structures, 1 eastbound and 1 westbound
- Construct one structure at a time
- Use remaining structure to carry 2 lanes of traffic in each direction
- Close Shrewsbury Street off-ramp (phase 1)
- Close both Grafton Street on-ramps and Summer Street on-ramp (both phases)

Construction Staging Plan (cont.)

Phase 1: Spring 2004 to Fall 2004
All I-290 lanes and ramps open from Fall 2004 to Spring 2005

Phase 2: Spring 2005 to Fall 2005
Fall 2005 – substantial completion – all ramps and lanes open

Phase 3: Work on bridge substructure
(no impact on 290 traffic – little impact on local traffic)

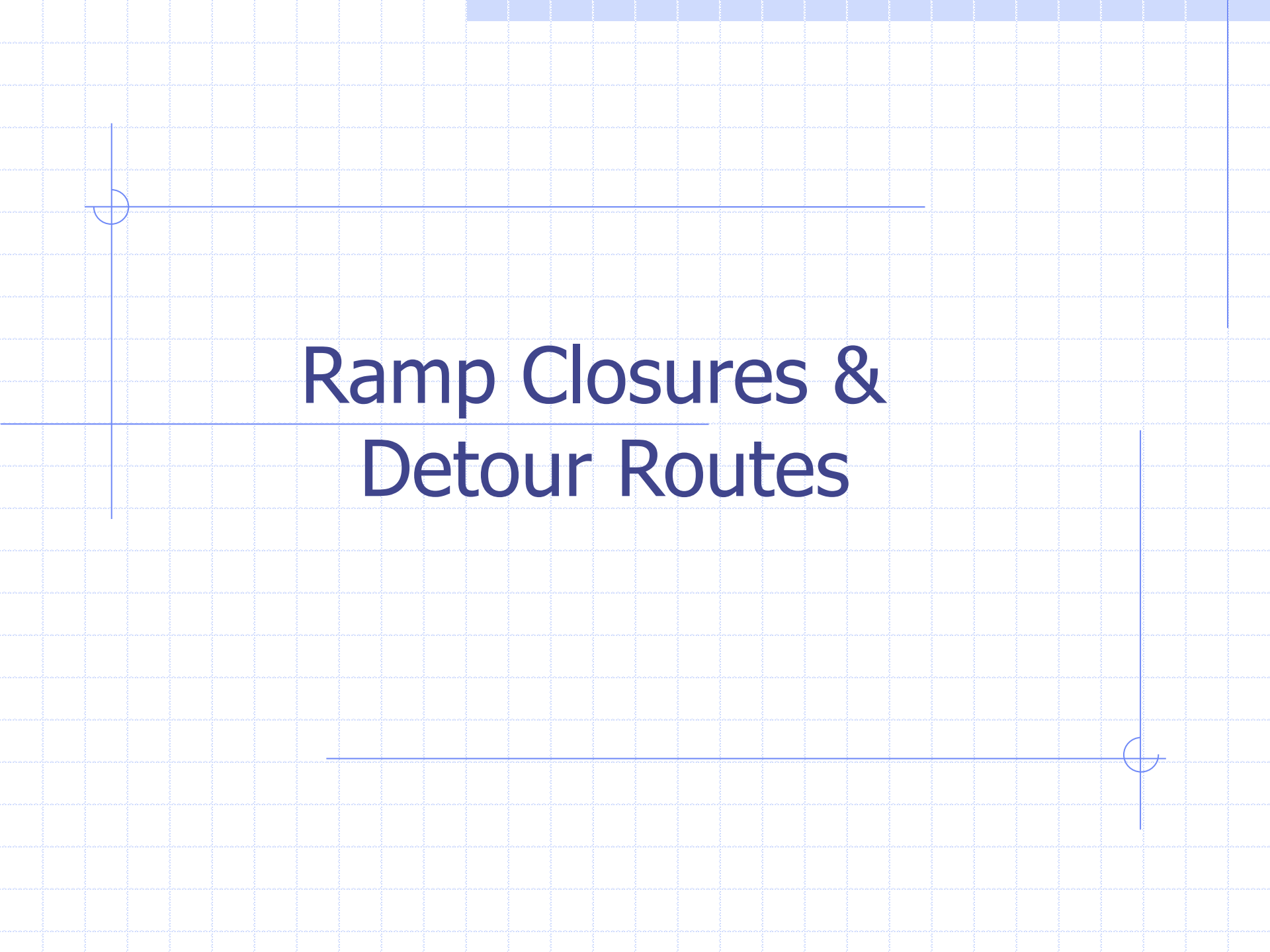
Total of approximately 14-16 months of impact

Getting the Word Out

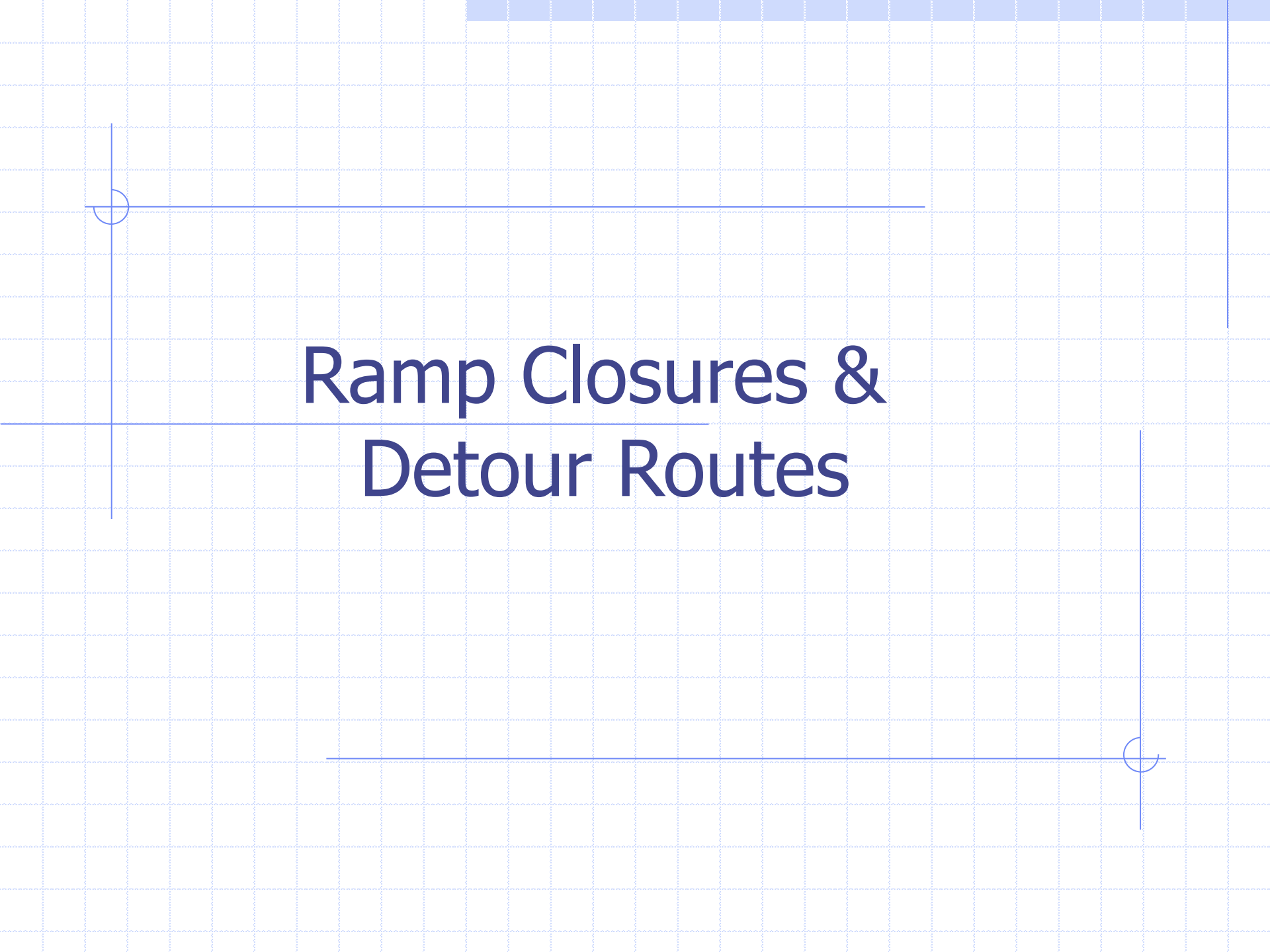
- Media campaign to encourage alternate routes
 - Local cable channel
 - Local newspaper
 - Local radio
 - Hotline – 508-752-8765
 - City and MassHighway websites
- Regional and local signage to encourage alternate routes – coordinate with City officials
- Monthly CAC meetings – if necessary

Parking

- Coordinate with City on parking beneath I-290
- Rotating impacted areas
- Identify alternate locations for parking

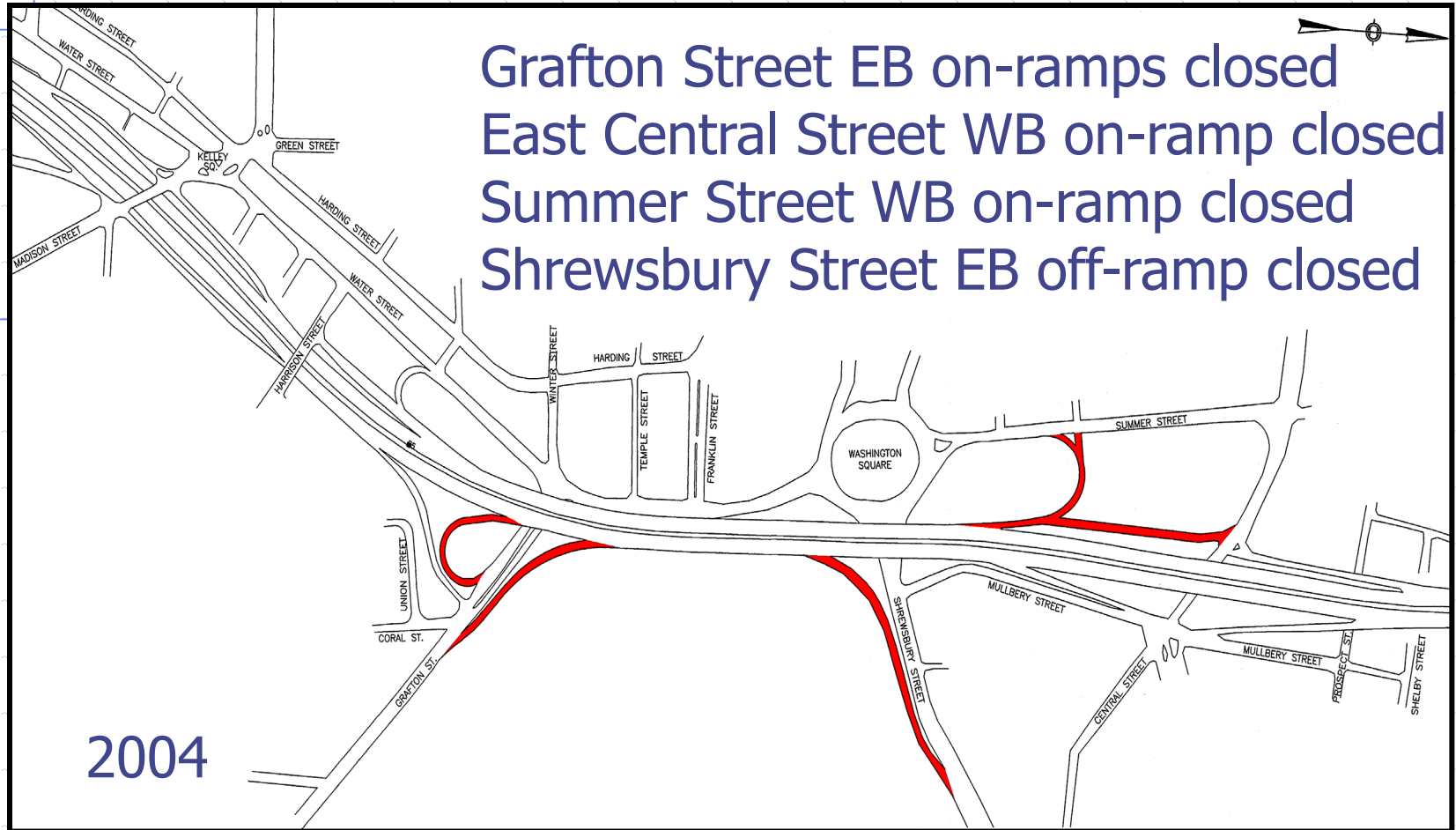


Ramp Closures & Detour Routes



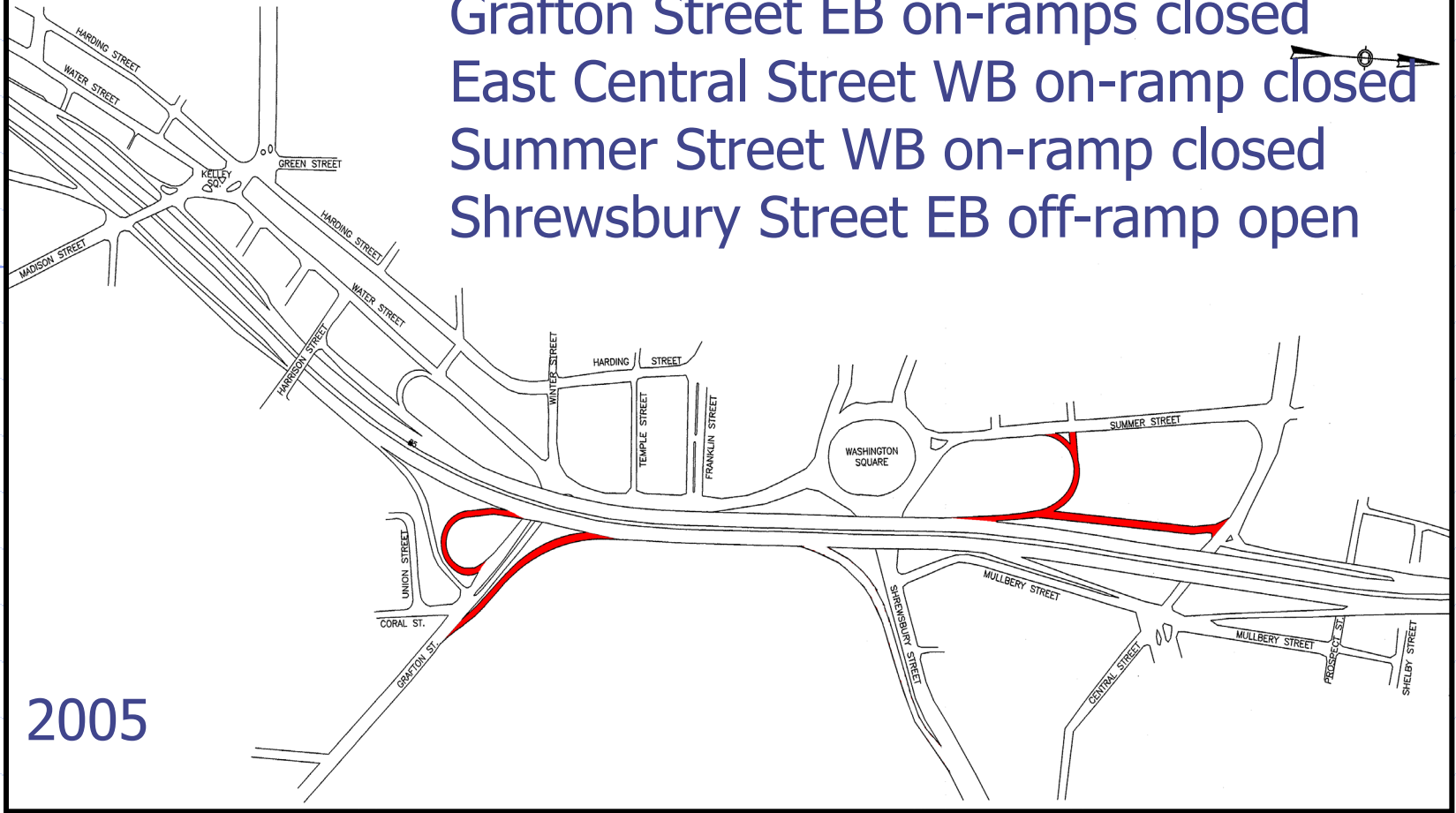
Ramp Closures – Stage 1

Grafton Street EB on-ramps closed
East Central Street WB on-ramp closed
Summer Street WB on-ramp closed
Shrewsbury Street EB off-ramp closed

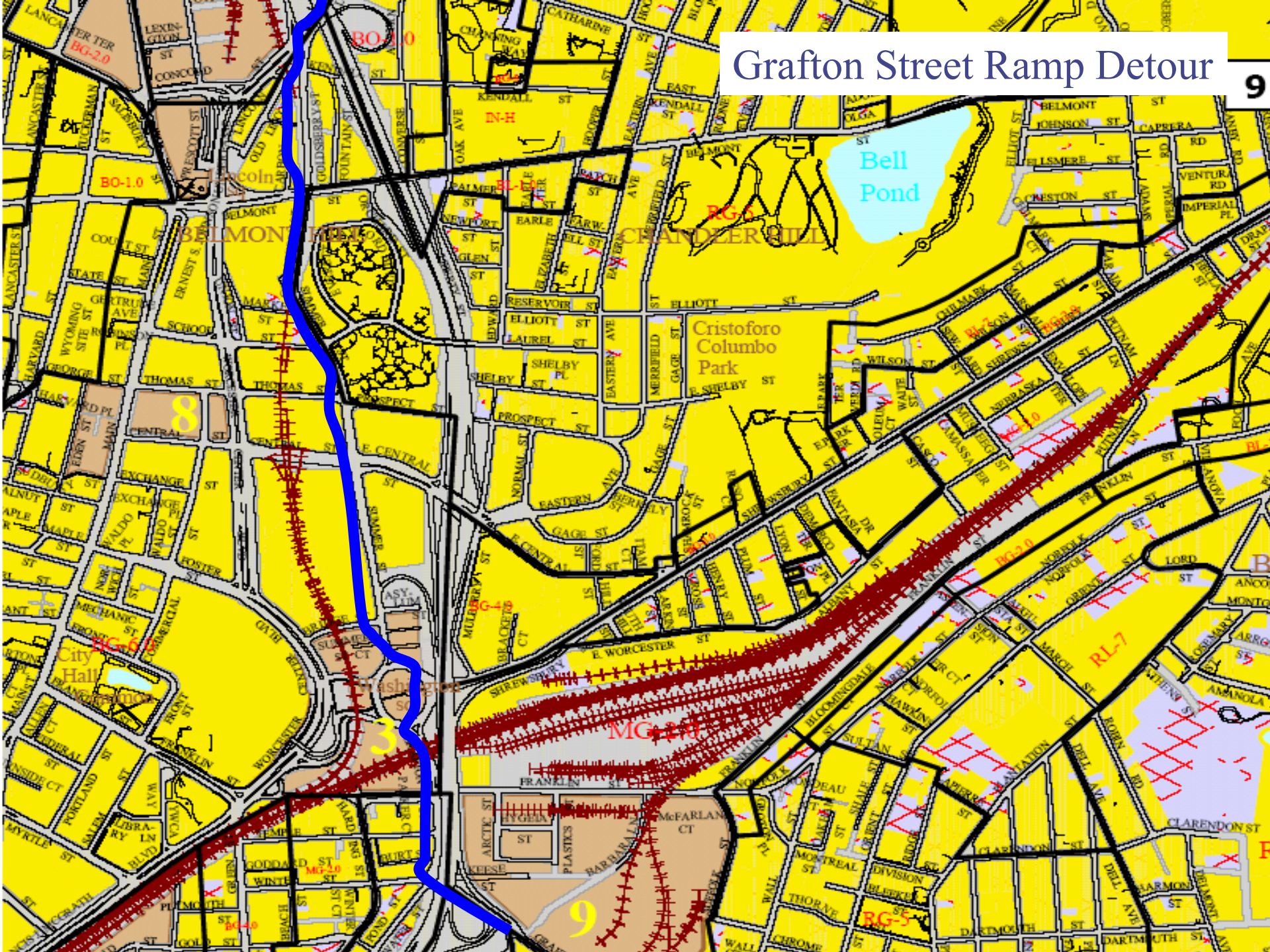


Ramp Closures – Stage 2

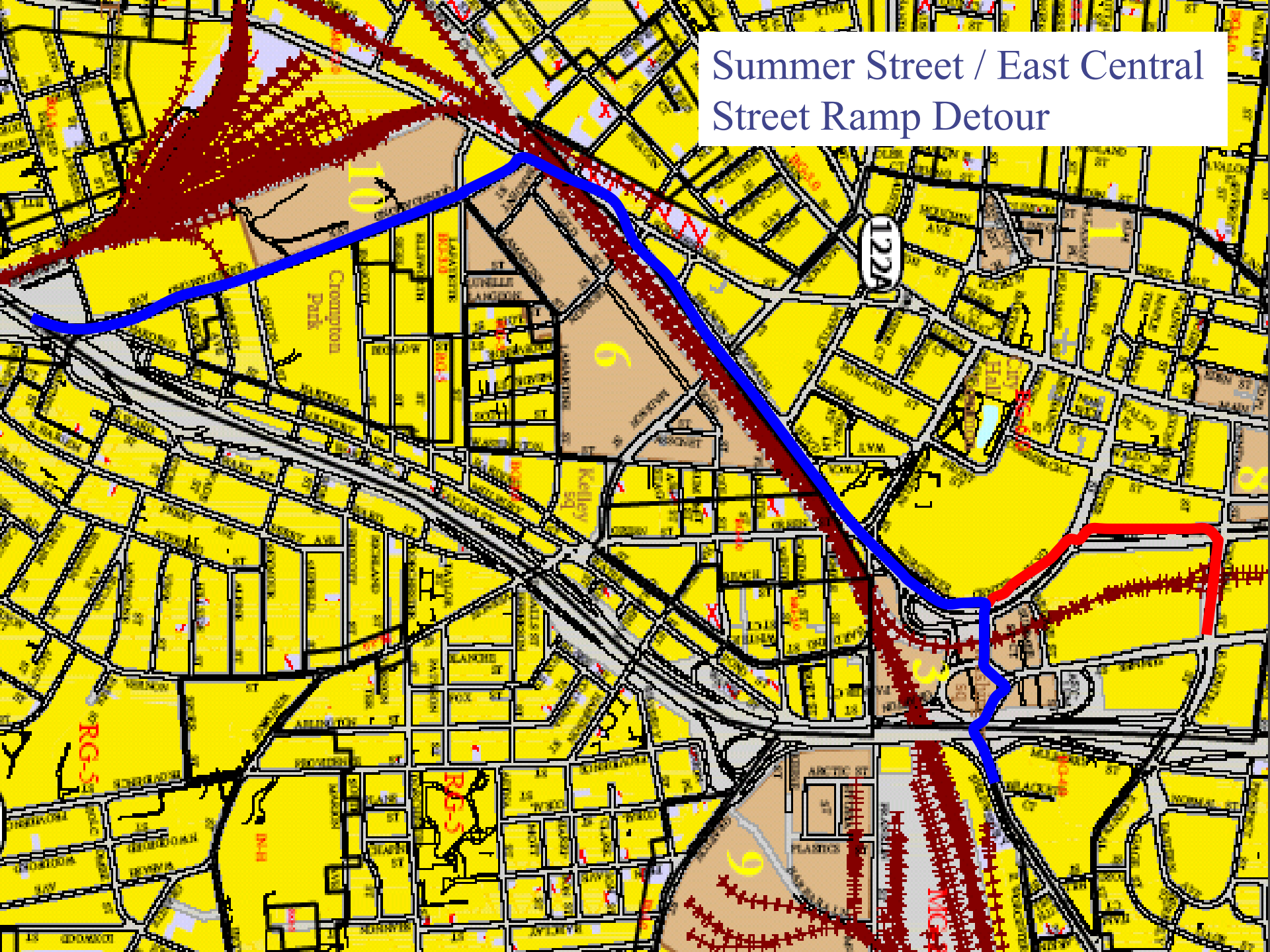
Grafton Street EB on-ramps closed
East Central Street WB on-ramp closed
Summer Street WB on-ramp closed
Shrewsbury Street EB off-ramp open



Grafton Street Ramp Detour



Summer Street / East Central Street Ramp Detour



Shrewsbury Street Ramp Detour

Mulberry Street closed to through traffic

On To Construction

- Construction starts April 12th.